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NOTICE OF ALLOWANCE AND FEE(S) DUE

24628

7500

03/26/2008

EXAMINER

GOLUB, MARCIA A

ART UNIT PAPI

PAPER NUMBER

120 S RIVERSIDE PLAZA 22ND FLOOR CHICAGO, IL 60606

WELSH & KATZ, LTD

2828

DATE MAILED: 03/26/2008

	APPLICATION NO.	PPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/568,091	02/10/2006	Tatsuya Ariga	111096542	8072

TITLE OF INVENTION: TWO-STAGE LASER PULSE ENERGY CONTROL DEVICE AND TWO-STAGE LASER SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)		Fee(s papei	s) Transmittal. This rs. Each additional	s certif paper	icate cannot be used fo	domestic mailings of the or any other accompanying to r formal drawing, must	
WELSH & KA 120 S RIVERSII 22ND FLOOR	DE PLAZA	/2008			Cert	ificate	of Mailing or Transr	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.	
CHICAGO, IL 6	50606							(Depositor's name)	
								(Signature)	
	_							(Date)	
APPLICATION NO.	APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/568,091	02/10/2006	NAME OF THE PART OF THE	Tatsuya Ariga			. 03705	111096542	8072	
		R PULSE ENERGY CON							
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nonprovisional	NO	\$1440	\$300	_	\$0		\$1740	06/26/2008	
EXAM		ART UNIT	CLASS-SUBCLASS	Ш					
GOLUB, M		2828	372-030000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Ta substitute for filing (B) RESIDENCE: (C	ne pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	RY)	ocument has been filed for	
lease check the appropri	nate assignee category or		•					up entity Government	
a. The following fee(s): Issue Fee Publication Fee (N Advance Order - #	are submitted: No small entity discount p # of Copies	permitted)	A check is enclosed. Payment by credit. The Director is he	ed. t card reby	. Form PTO-2038	is atta	required fee(s), any def		
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	ıs. See 37 CFR 1.27.					ΓΙΤΥ status. See 37 CF		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/568,091	10/568,091 02/10/2006		Tatsuya Ariga	111096542 8072		
24628	7590	03/26/2008		EXAM	IINER	
WELSH & KATZ, LTD				GOLUB, MARCIA A		
120 S RIVER		PLAZA		ART UNIT	PAPER NUMBER	
22ND FLOOR CHICAGO, IL 60606				2828 DATE MAILED: 03/26/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 351 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 351 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/568,091	ARIGA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	MARCIA A. GOLUB	2828					
I	WANGA A. OOLOB	2020					
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	application. If not included on will be mailed in due course. THIS					
1. This communication is responsive to							
2. ☑ The allowed claim(s) is/are <u>19-32</u> .							
 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 							
2. Certified copies of the priority documents have							
3. ☐ Copies of the certified copies of the priority doc	, ,						
International Bureau (PCT Rule 17.2(a)).		3 , , , , ,					
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.						
(a) ☐ including changes required by the Notice of Draftsperso		O-948) attached					
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of					
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the							
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal	Patent Application (PTO-152)					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa						
	Paper No./Mail D	Date					
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. Examiner's Amen	ament/Comment					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stater	ment of Reasons for Allowance					
-	9.						

DETAILED ACTION

Allowable Subject Matter

Claims 19-32 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not disclose or suggest to combine a gas laser composed of two chambers, one for producing a seed light and another for amplifying a seed light. Oscillating capacitor is used to control the light output from an amplifying stage. The laser also includes control electronics comprising monitor modules that monitors the energy of the seed light and amplified light. The measured results of the monitor modules is used to control amplified light, such that the pulse energy to laser light becomes the target energy for the amplification stage and the value of pulse energy of the amplified light saturates when the pulse energy to the seed light increases. The prior art cited, but not relied upon by the examiner includes the following US patents 7,095,773 and 6,567,450 that disclose similar two-stage gas laser systems, but do not disclose the specific monitoring and energy controlling mechanism as described in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2828

Contact Info

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCIA A. GOLUB whose telephone number is (571)272-8602. The examiner can normally be reached on M-F 9-6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Marcia A. Golub/ Assistant Examiner Art Unit 2828

/Minsun Harvey/

Supervisory Patent Examiner, Art Unit 2828